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# Recombinant human RAGE/AGER protein

Catalog Number: ATGP3923

### **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

24-342aa

#### UniProt No.

015109

#### **NCBI Accession No.**

NP 001127

## **Alternative Names**

RAGE, AGER, advanced glycosylation end product-specific receptor isoform 1, SCARJ1, Receptor for advanced glycosylation end products

### **PRODUCT SPECIFICATION**

# **Molecular Weight**

61.2 kDa (561aa)

### **Concentration**

0.25mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# **Biological Activity**

Measured by the ability of the binding activity in a functional ELISA. The ED50 range ≤15ug/ml.

#### Tag

hlgG-His-Tag

## **Application**

SDS-PAGE, Bioactivity

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**



# Recombinant human RAGE/AGER protein

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### **Description**

RAGE, also known as advanced glycosylation end product-specific receptor isoform 1, is a member of the immunoglobulin super-family transmembrane proteins. It mediates interactions of advanced glycosylation end products (AGE). AGE/RAGE signaling plays an important role in regulating the production/expression of TNF-alpha, oxidative stress, and endothelial dysfunction in type 2 diabetes. This protein contributes to the translocation of amyloid-beta peptide (ABPP) across the cell membrane from the extracellular to the intracellular space in cortical neurons. Recombinant human RAGE, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

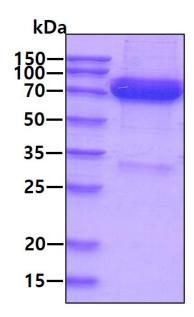
<ADL>QNITARI GEPLVLKCKG APKKPPQRLE WKLNTGRTEA WKVLSPQGGG PWDSVARVLP NGSLFLPAVG IQDEGIFRCQ AMNRNGKETK SNYRVRVYQI PGKPEIVDSA SELTAGVPNK VGTCVSEGSY PAGTLSWHLD GKPLVPNEKG VSVKEQTRRH PETGLFTLQS ELMVTPARGG DPRPTFSCSF SPGLPRHRAL RTAPIQPRVW EPVPLEEVQL VVEPEGGAVA PGGTVTLTCE VPAQPSPQIH WMKDGVPLPL PPSPVLILPE IGPQDQGTYS CVATHSSHGP QESRAVSISI IEPGEEGPTA GSVGGSGLGT LA<LEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM> <ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ> <PREPQVYTLP PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL> <HNHYTQKSLS LSPGKHHHHH H>

#### **General References**

Giurdanella G., et al. (2017) Biochem Pharmacol. 142:145-154 Zhang L., et al. (2019) Int J Mol Med. 44:885-892

# **DATA**

#### **SDS-PAGE**



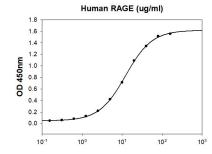
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

**Biological Activity** 

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Human HMGB1 is coated at 20 ug/ml (100 ul/well) can bind Human RAGE. The ED50 range  $\leq$ 15 ug/ml.

